

NISSEI GROUP GREEN PROCUREMENT STANDARD Ver.29

NISSEI ELECTRIC CO., LTD
Quality Control Dept.
Quality & Environmental System Sec.

1. Purpose

This standard was established to promote green procurement by delivering environmentally friendly products to our customers and aim to contribute to the preservation of the global environment.

To achieve this purpose, regarding environmental management substances in the materials that make up NISSEI products or materials used in the manufacturing are clarified prohibited substances and controlled substances, established management method for materials, parts, products, and services.

We communicate thoroughly with suppliers and defined procedures to manage prohibited substances will not be mixed when purchased materials.

2. Application scope

2.1. Applied sites

This standard is applied to the whole collective NISSEI Group, including:

NISSEI ELECTRIC CO., LTD. (NEJ)
NISSEI ELECTRIC VIETNAM CO., LTD. (NEV)
NISSEI ELECTRIC MY THO CO., LTD. (NEM)
NISSEI ELECTRIC HANOI CO., LTD. (NEH)
NISSEI ELECTRIC (THAILAND) CO., LTD. (NET)
NISSEI ELECTRIC (H.K.) CO., LTD. (NEHK)
NISSEI ELECTRIC INDIA PRIVATE LIMITED (NEI)
NISSEI ELECTRIC (SINGAPORE) PTE. LTD. (NESG)

2.2. Application scope of materials/parts/products

Application scope of materials/parts/products.	
①	Semi-finished products: Such as assembly parts such as functional units, modules, assembly board
②	Parts: Electrical parts, mechanical parts, semiconductor devices, printed-wiring boards, Packaging materials used by customers at their shipment: Such as individual boxes, packing boxes, labels, printing ink·paints, wooden frames, trays, plastic bags, cushioning materials, sheets, wraps, cardboard, tapes, cable ties, protective cap .
③	Materials: Such as rubber compounds, pigments, resins, inks, wires, and metal cores.
④	Products: Designed and manufactured by NISSEI Group
⑤	Instruction Manual
⑥	Packaging materials used to protect and deliver NISSEI Group's products but not used by customers for shipment: Such as individual boxes, packing boxes, labels, printing ink·paints, wooden frames, trays, plastic bags, cushioning materials, sheets, wraps, cardboards, tapes, cable ties, protective cap .
⑦	⑦ is applied for RoHS Directive 2011/65/EU Annex II amended by Directive (EU)2015/863. Packaging materials used to deliver and protect products procured by NISSEI Group, and being discarded at NISSEI Group. Within "Sub-material & consumable", "Equipment" and "Manufacturing equipment and jig" used in the production process excluding the above ⑥, something that touch products. "Sub-materials & consumables" means material that are used in production process but are not used in the product, and one-time use or the amount decreases per use: Such as abrasive papers, abrasives, cleaning agents, treatment agents, tapes, rubber gloves, finger

	sacks, non-woven fabrics, brushes. "Equipment" means something that can be used repeatedly for a long time without changing its shape, and that has a service life for one year or more. Such as shelves, work desks, trays, containers, solvent containers.
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2.3. Exemption

It is excluded for the articles which are sale outside such as office equipment, building materials.

3. Definition of terms

Table 3-1 Terms

	Term	Definition
①	Environmental management substances	Substances contained in parts and devices, which are determined by significant environmental impact on both humans and the global environment, notified to suppliers by NISSEI Group .
		Prohibited substances: Substances that are prohibited from use by current laws or customer requirements. refer Table 4-1-1①③
		Controlled substances: chemSHERPA controlled substances other than the above prohibited substances. Substances that are not prohibited, but their content amount needs to be grasped. Substances for which management is being strengthened in response to customer demands and regulatory trends.
②	Contain	Mean that substances are added to, filled in, mixed in or adhered to parts or homogeneous materials constituting products regardless of whether intentional. (Including cases of unintentionally mixed or attached to product in the process) In cases of multiple purchases, regarding the maximum quantity of what contained are reported.
③	Impurities	Substances that are contained in natural material and cannot be removed by the current industrial technologies in the production process or substances that are cannot be removed by the current industrial technologies in the process of synthesis.
④	Quarantine operation	Mean that based on the performance or customer requirement, if the materials containing environmental management substances (prohibited substances) must be used, they should be ensured that they will not be mixed with other materials or products from receiving to shipping process.
⑤	MSDS	Products containing Class I and II Designed Chemical Substances more than 1% by weight (or Specified Class I Designed Chemical Substances more than 0.1% by weight) of Japan PRTR Law must submit an MSDS. In addition, chemicals, dyes, paints, solvents...also required to submit.
⑥	High precision analysis data	For high precision analysis data, refer item 4.2. Analysis method.
⑦	Controlled value	A standard value which determines the notification to suppliers for correction, if it has been exceeded during incoming inspection or periodic inspection process.

4. Environmental management substances

4.1. Environmental management substances

4.1.1. Prohibited substances

Stipulate in Table 4-1-1① based on domestic and foreign laws or customer requirements.

In case of excluding, document notification is mandatory, and it will be specified in the purchase specification exchanged with supplier. Even unintentionally, content must not exceed the values in the Table 4-1-1①. About analysis methods for RoHS Directive 2011/65/EU Annex II amended by Directive (EU)2015/863, please refer to section 4.2.

Table 4-1-1① Environmental management substances – List of prohibited substances

Major classification	Prohibited substances (substances that are prohibited from intentional use)	Allowable concentration (Less than ppm)	Controlled value (Less than ppm)	Regulated items	Laws regulations	
Metals and metal compounds	1 Cadmium and its compounds	5	5	plastics, gums, paints/inks, glass	RoHS Directive Packaging and Packaging Waste Directive	
		20		Solders		
		Table 4-1-3		Packaging materials		
		75	60	All other uses		
	2 Hexavalent chromium compounds	Table 4-1-3		Packaging materials	RoHS Directive Packaging and Packaging Waste Directive	
		1000	800	All other uses		
	3 Lead and its compounds	40	-	Battery	RoHS Directive Packaging and Packaging Waste Directive	
		100	80	Plastics, gums		
		500	450	Lead-free solder, electroplating and material		
		1000	750	Other metals		
		Table 4-1-1②		Exemption		
	4 Mercury and its compounds	Table 4-1-3		Packaging materials	RoHS Directive Packaging and Packaging Waste Directive	
		1000	800	All other uses		
	5 Beryllium oxide	CAS No. 1304-56-9	intentional use prohibited		All uses	Customer demand
	6 Cobalt dichloride	CAS No. 7646-79-9	intentional use prohibited		desiccant indicators	REACH Restricted substances
7 Trisubstituted organotin compounds	intentional use prohibited 1000 (tin conversion concentration)		All uses	REACH Restricted substances		
Bis(tributyltin) oxide (TBTO)		Prohibited contain		All uses	Chemical substances control law	
8 Dibutyltin compounds	1000 (tin conversion concentration)		All uses	REACH Restricted substances		
9 Dioctyltin compounds	1000 (tin conversion concentration)		1. Textile articles, gloves, and footwear intended to touch the skin 2. Wall papers, floor materials 3. Children's products and diapers 4. Two-component room temperature vulcanization molding kits			
10 Nickel and its compounds	0.5µg/cm ² /week		Products intended to be in direct contact with the skin for a long period of time.	REACH Restricted substances		

Chlorine • Bromine Organic Compounds	11 Polybrominated biphenyls (PBBs)	1000	800	All uses	RoHS Directive
	12 Polybrominated diphenyl ethers (PBDEs)	1000	800	RoHS Directive applied items	RoHS Directive EU POPs Regulation TSCA
		10		All other uses	Class 1 Chemical substances control law
	13 Polychlorinated biphenyls (PCBs)	Prohibited contain		All uses	POPs Regulation Class 1 Chemical substances control law
	14 Polychlorinated naphthalenes (PCN) (more than 1 chlorine atoms)	Prohibited contain		All uses	Class 1 Chemical substances control law
	15 Pentachlorophenol (PCP) and its salts and esters	Prohibited contain		All uses	REACH Restricted substances
	16 Polychlorinated terphenyl (PCT)	50		All uses	EU POPs Regulation Class 1 Chemical substances control law
	17 Short-chain chlorinated paraffins (SCCP) (C10-C13)	intentional use prohibited 1000		All uses	POPs Convention
	18 Medium-chain chlorinated paraffins (MCCP) (C14-C17)	1000		All uses	Class 1 Chemical substances control law POPs Regulation
	19 Hexabromocyclododecane	intentional use prohibited 100		All uses	Class 1 Chemical substances control law
	20 Pentachlorobenzene	Intentional use prohibited		All uses	Class 1 Chemical substances control law
	21 Hexachlorobenzene	intentional use prohibited		All uses	Class 1 Chemical substances control law
	22 Polyvinyl Chloride (PVC)	intentional use prohibited		All uses Exemption: Purchase materials specified by Nissei	Customer demand
	23 Chlorinated organic solvent	intentional use prohibited		All uses	Customer demand
Others	24 Tris (2-chloroethyl) phosphate (TCEP) Tris (1-methyl-2- chloroethyl) phosphate (TCPP) Tris (1,3-dichloro-2-propyl) phosphate (TDCPP)	1000		All uses	US domestic law
	25 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™)	Prohibited contain		All uses	POPs Regulation Class 1 Chemical substances control law
	26 Perfluorooctane sulfonate (PFOS) and its salts 27 Perfluoro-1-octanesulfonyl fluoride (PFOF)	intentional use prohibited PFOS and its salt total 25ppb Related substances 1000ppb		All uses	Class 1 Chemical substances control law POPs Regulation Class 1 Chemical substances control law POPs Convention
	28 Perfluorooctanoic acid (PFOA), its salts Perfluorooctanoic acid (PFOA) related substances	Intentional use prohibited and total 25ppb total 1000ppb		All uses *1	Class 1 Chemical substances control law POPs Regulation
	29 PFHxS, its salts PFHxS related substances	Intentional use prohibited and total 25ppb total 1000ppb		All uses *1	Class 1 Chemical substances control law POPs Regulation
	30 PFHxA, its salts PFHxA related substances	total 25ppb total 1000ppb		footwear and textiles, leather and furs used in clothing and its related accessories. *1	REACH Restricted Substances
	31 PFCAs(C9-C14), its salts PFCAs(C9-C14) related substances	total 25ppb total 260ppb		All uses *1	REACH Restricted Substances
32 PFCAs(C9-C21), its salts PFCAs(C9-C21) related substances	intentional use prohibited		All uses *1	POPs Convention	

33 Long-Chain Perfluoroalkyl carboxylate (LCPFAC)	intentional use prohibited		All uses	TSCA SNUR
34 Asbestos	intentional use prohibited 1000		All uses	REACH Restricted Substances Safety & Hygiene Law
35 Azo colorants and azo dyes which generate certain aromatic amines(refer to table 4-1-1③)	30		Textile, leather goods which may touch with skin and oral cavity for a long period.	REACH Restricted Substances
36 2-(2H-1,2,3-benzotriazol-2-yl)-4,6-di-tert-butylphenol (UV-320) CAS No.3846-71-7	Prohibited contain		All uses	Class 1 Chemical substances control law
37 Formaldehyde	Less than 0.05 in aerial density		Wood and textile products	REACH Restricted substances
	Less than 0.06 in aerial density		All other uses	
38 Dimethyl fumarate	0.1		All uses	REACH Restricted Substances
39 Radioactive substances	intentional use prohibited		All uses	Reactor Regulation Law
40 Fluorinated greenhouse gases PFC, SF6, HFC (Kyoto Protocol)	intentional use prohibited		All uses	Kyoto Protocol
41 Ozone-depleting substances (All substances described in Montreal Protocol as CFC substances, 1,1,1-Trichloroethane, Carbon tetrachloride substances, Halon, HBFC substances, Methyl bromide, Bromochloromethane, HCFC substances, Alternative fluorocarbons HFC)	intentional use prohibited		All uses	Montreal Protocol
42 Benzene amine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)	intentional use prohibited		All uses	Customer demand
43 Yellow phosphorous	intentional use prohibited		All uses	Industrial Safety and Health Law
44 Polycyclic aromatic hydrocarbons (PAHs)	0.5		Rubber or plastic parts in components that come into direct contact with the skin or oral cavity for long periods or repeatedly.	REACH Restricted Substances
45 Phthalate ester (DINP, DIDP, DNOP)	1000		Toys and childcare articles that may direct contact with children's oral cavities. *2	REACH Restricted Substances
46 Dibutyl phthalate (DBP), Di(2-ethylhexyl)phthalate (DEHP), Benzyl butyl phthalate (BBP), Diisobutyl phthalate (DIBP)	4 substances total 1000	300	All uses *2	REACH Restricted Substances (RoHS Directive)
	Four substances total 100		Limited to ②⑥ packaging materials	USA Model Toxics in Packaging Legislation
47 Octamethyl cyclotetrasiloxane (D4) Decamethyl cyclopentasiloxane (D5) Dodecamethyl cyclohexasiloxane(D6)	1000		· Wash-off cosmetics. · Substances and mixtures containing 0.1wt.% or more. Exempted to the constituents of the silicone polymer itself	REACH Restricted Substances
48 Red Phosphorus	intentional use prohibited		All uses	Customer demand
49 Isopropylphenyl phosphate (PIP(3:1))	intentional use prohibited		All uses	TSCA PBT
50 Pentachlorothiophenol (PCTP)	10000		All uses	TSCA PBT
51 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	Prohibited content		All uses	POPs Regulation Class 1 Chemical substances control law

52 Pigment Violet-29	intentional use prohibited	All uses	TSCA First 10 Chemical Substances Customer demand
53 Aromatic ring 1-7 Mineral oil aromatic hydrocarbons (MOAH)	ink :1000ppm	Limited to ②⑥ packaging materials and ⑤ printed matter in 2-2. Scope applicable to materials/parts/products.	France circular economy law
Aromatic ring 3-7 Mineral oil saturated hydrocarbons (MOSH)	ink :1ppm		
Carbon 16-35 Mineral oil saturated hydrocarbons (MOSH)	ink :1000ppm		
54 Bisphenol A (BPA)	200	thermal paper and packaging materials	REACH Restricted Substances
55 Bisphenol S	200	thermal paper and packaging materials	Customer demand
56 REACH Authorization Substances ANNEX XIV	1000	All uses	REACH Authorization Substances
57 Substances Classified "P" and "D/P" in GADSL, that falls under prohibited use/destinations.	Refer to GADSL	https://www.gadsl.org/	GADSL

*1 For fluorine group materials, confirm with the manufacturer that there is no concern for contamination via the manufacturing process and raw materials.

*2 consider the contamination risk caused by touch transferal and mixture of impurities during processes such as stock, packing, transport, and parallel production.

Table 4-1-1② RoHS Exemption categories and validity date

No.	Exemptions	Validity date
6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35 % lead by weight	All categories: 30 June 2027*
6(b)-I	Lead as an alloying element in aluminum containing up to 0.4 % lead by weight, provided it stems from lead-bearing aluminum scrap recycling.	Categories 1-7, 10: 11 Dec 2026 Categories 9, 11: 30 June 2027
6(b)-II	Lead as an alloying element in aluminum for machining purposes with a lead content up to 0.4 % by weight.	Categories 9, 11: 30 June 2027*
6(c)	Copper alloy containing up to 4 % lead by weight	All categories: 30 June 2027*
7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)	All categories: 30 June 2027*
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	All categories: 30 June 2027*
13(a)	Lead in white glasses used for optical applications	Categories 1-10: 21 July 2028

*The exemption validity date is currently under review and may change due to legal revisions.

Table 4-1-1③ Azo dyes that form any of the amine compounds listed

CAS No	Amin
60-09-3	4-Aminoazobenzene
90-04-0	o-Anisidine
91-59-8	2-Naphthylamine
91-94-1	3,3'-Dichlorobenzidine
92-67-1	4-Aminodiphenyl
92-87-5	Benzidine
95-53-4	o-Toluidine
95-69-2	4-Chloro-2-Methylaniline
95-80-7	2,4-Toluylenediamine

97-56-3	o-Aminoazotoluene
99-55-8	5-Nitro-o-Toluidine
101-14-4	3,3'-Dichloro-4,4'-Diamino Diphenyl Methane
101-77-9	4,4'-Methylenedianiline
101-80-4	4,4'-Diamino diphenyl ether
106-47-8	p-Chlorinelike
119-90-4	3,3'-Dimethoxybenzidine
119-93-7	3,3'-Dimethylbenzidine
120-71-8	2-methoxy-5-methylaniline
137-17-7	2,4,5-Trimethylaniline
139-65-1	4,4'-Diaminodiphenylsulfide
615-05-4	2,4-Diaminoanisole
838-88-0	4,4'-Diamino-3,3'-Diphenylmethane

4.1.2. Controlled substances

Controlled substances are “chemSHERPA controlled substances” excluding 4.1.1 Prohibited substances and that need to be grasped. PVC and Red Phosphorus specified by NISSEI group are to be controlled substances, please report them in chemSHERPA.

Especially for substances in Table 4-1-2, which must be reported regardless of their content rate.

Table 4-1-2 Especially controlled substances requiring reporting

No.	Substances / Substance group name	CAS No.	Threshold	Lows and Regulation
1	Decabromodiphenyl Ethane	84852-53-9	-	Canadian Environmental Protection Act (CEPA)
2	PFAS (The items listed in 2-2. Application scope of materials/parts/products ⑥).Packaging materials used at the time of delivery to our company are excluded.)	-	-	<ul style="list-style-type: none"> ·U.S. specific state regulations on hazardous substances in packaging materials ·Individual request

4.1.3. Packaging materials

Regarding packaging materials ②⑥ in 2-2.Scope applicable to materials/parts/products, in addition to Table4-1-1①, Table4-1-3 shall also be applicable.

Among the packaging materials shown Table 4-1-3, it excludes packaging materials discarded at NISSEI group.

Packaging materials in the table is not exhaustive. We may request a separate survey if necessary.

Table 4-1-3 **Packaging materials** (Handles, plastic bags, cushions, wraps, foils, trays, reels, ties...)

Substances: Heavy metals (Mercury, Cadmium, Hexavalent chromium, and lead)	
Target	Effective date of the ban on the delivery
Allowable concentration: "Less than 100 ppm" is determined as the allowable total-concentration of four heavy metals (cadmium, lead, mercury, and hexavalent chromium) contained in homogeneous materials of each part, ink, or paint that constitutes a package. However, allowable concentration of lead, cadmium in plastics (including rubber), paint, ink part must also satisfy Regulations for "Cadmium and cadmium compounds" and "Lead and lead compounds" (Typical plastic parts: handles, plastic bags, cushions, wraps, foils, trays, reels, tape, magazine sticks (including stoppers), bulk case cable ties, protective cap), ...	

(1) For hexavalent chromium, first analyze total chromium content and verify that the total concentration of cadmium, lead, mercury, and total chromium is less than 100 ppm. When analyzing, the same sample preparation methods as those used for cadmium and lead are applicable.

(2) In case of total concentration of 4 elements is more than 100 ppm, verify that total concentration of cadmium, lead, and mercury (less than 3 elements) is less than 100 ppm. It will be irrelevant if the total concentration of 3 elements is more than 100 ppm.

(3) In case of total concentration of 3 elements is less than 100ppm, analyze and confirm the present of hexavalent chromium in chromium, it is compatible if no detected hexavalent chromium.

Measurement Standard: method of analysis follow the methods specified in item 4.2

4.2 Analysis method of RoHS Directive 2011/65/EU Annex II amended by Directive (EU) 2015/863

Regarding analysis standards, it must conform to IEC 62321.

Also, the analytical institution shall be an accredited laboratory responding to the IEC 17025.

5. Survey of chemical substances for purchased materials

5.1. Survey target substances

Survey target substances are prohibited, controlled substance and packaging materials that are determined by NISSEI Group.

4-1-1 Prohibited substances

4-1-2 Controlled substances

4-1-3 Packaging materials

To meet our customer's requirements, we may request additional survey other than the above.

5.2. Survey target product name

The product name when investigating will be specified as the names currently officially agreed upon between the two parties.

In case of changing product name or discontinuing, please change the product name that is delivered to NISSEI Group.

5.3. Survey forms

5.3.1. General purpose

Our standard survey is chemSHERPA (chemSHERPA AI or chemSHERPA CI) and Non-use warranty.

In case that cannot respond to chemSHERPA, please contact us.

For more information on chemSHERPA, please confirm to the website.

【chemSHERPA】 <https://cmp-consortium.com/english/chemsherpa/tool>

5.3.2. Relating to automobiles (when we designate)

Regarding surveys for automobiles, IMDS and Non-use warranty are standard.

For more information on IMDS, please confirm to the website.

【IMDS】 <https://www.mdssystem.com/imdsnt/startpage/index.jsp>

5.4. The cases of containing prohibited substances

For non-guaranteed part of Non-use warranty, it is possible to delete line, modify • add optionally wording. However, when adding or modifying, please clarify the changes.

Please fill in 「**Adjusting at engineering dept.**」for products that are adjusting with Engineering Department of NISSEI Group.

For substances that are essential for manufacturing the product and impossible to eliminate, please fill in 「**No plan**」and indicate the reason.

5.5. Type of chemical substances survey

5.5.1. Chemicals investigation for new purchased materials

【Necessary document】

- ① According to section 5.3.
- ② High precision analysis data (Necessary only for our specified materials)
- ③ SDS (Necessary for corresponding materials)

5.5.2. Routine chemical substances investigation (once a year)

【Necessary document】 ① Assignment form when having request such as Request for periodical environmental investigation etc.

5.5.3. Irregular chemical substances investigation

【Necessary document】 • If 4M change that affect the chemical substances, below documents are necessary:

- ① According to section 5.3.
- ② High precision analysis data (Necessary only for our specified materials)
- ③ SDS (Necessary for corresponding materials)

5.6. Department in charge of environmental investigation

The Procurement Department is responsible for conventional materials.

The Procurement Department or the Technology Department is responsible for new materials.

5.7. Practical use of survey results

Various survey documents obtained from suppliers will be used as objective evidence for our chemical substances management.

Also, the information provided is used to correspond to chemical substances surveys requested from customers.

6. Requests for management of chemical substances contained in products of suppliers

6.1. Building construction of management system for chemical substances contained in products.

To accept products that comply with NISSEI ELECTRIC Green Procurement Standards, we ask suppliers to build, maintain and improve the Chemical Substance Management System (CMS) which helps to understand, manage and use chemical substances contained in products.

Please refer to "Guidelines for the Management of Chemical Substances in Products (4th Edition)" on <https://cmp-consortium.com/docs/guidelines> published by CMP Consortium for implementation item of managing chemical substances contained in products.

6.2. In case that supplier is a trading company

Please inform NISSEI Group Green Procurement Standard to the manufacturers of the items you handle and comply with them on their own responsibility.

6.3. Obtaining Evidence

When reporting to the Non-use guarantee, please be sure to confirm the manufacturer's evidence of non-containment. If the response is provided by a trading company, please obtain and confirm the manufacturer's evidence of non-containment. Please instruct your trading partners and supply chain to maintain and manage evidence and records of non-containment information and other technical information

7. Contact information

Please contact the person in charge of each site as below:

Site	Contact information
NISSEI ELECTRIC CO., LTD. (NEJ)	Tel:0538-66-5161
NISSEI ELECTRIC VIETNAM CO., LTD. (NEV)	Tel:84-28-3896-0239
NISSEI ELECTRIC MY THO CO., LTD. (NEM)	Tel:84-273-364-2451
NISSEI ELECTRIC (THAILAND) CO., LTD. (NET)	Tel:66-44-335-530
NISSEI ELECTRIC HANOI CO., LTD. (NEH)	Tel:84-24-3955-0045
NISSEI ELECTRIC (H.K.) CO., LTD. (NEHK)	Tel:852-2317-0283
NISSEI ELECTRIC (SINGAPORE) PTE. LTD. (NESG)	Tel:65-6231-2680
NISSEI ELECTRIC INDIA PRIVATE LIMITED (NEI)	Tel:91-96006-57601

Revision history

<u>Version</u>	<u>Revision content summary</u>	<u>Issued date</u>	<u>Issue</u>	<u>Approval</u>
0	New regulation	2006/6/29	Oda	<u>Ito</u>
1	Change according to revision of environmental impact substances control regulation and environmental impact substances instruction	2006/6/29	Oda	Ito
2	Change according to revision of environmental impact substances control regulation and environmental impact substances instruction Revision parts are marked with red or blue	2007/5/10	Oda	Ito
3	In case of no changing of component sheet (MSDS) and ICP data, required evidence documentation submission will receive extension of 1- year validity period.	2007/11/23	Oda	Ito
4	③. Clarification of no permission for intentional contain of substances marked with ○ when explaining about use-prohibited list ③ of item 3. Definition of terms. Changing one part of environmental impact non-use certificate.	2007/12/04	Oda	Ito

5	Changing definition of prohibited substances in item of 3. Term definition Initially adding and integrity of item 4.1 Use-prohibited substances Changing to match with changing of item of 4.1 and 4.2	2008/01/21	Oda	Ito
6	Changing definition of prohibited substances in item of 3. Term definition Initially adding and integrity of item 4.1 Use-prohibited substances Changing to match with changing of items of 4.1 and 4.2 Other: Correction of literal (6.1) Changing level based on purchasing prohibition period	2008/3/03	Oda	Ito
7	Changing definition of prohibited substances in item of 3. Term definition Changing investigation substances and submission documentation. Changing required analysis data and responsible person	2009/03/18	Akai	Suzuki
8	Changing investigation substances	2009/11/24	Akai	Suzuki
9	Changing NISSEI Group's prohibited substances. Changing investigation substances according to the second announcement on SVHC substances of REACH regulation.	2010/04/13	Akai	Suzuki
10	Changing NISSEI Group's prohibited substances. Changing investigation substances according to the fourth announcement on SVHC substances of REACH regulation.	2011/04/06	Akai	Suzuki
11	Adding NISSEI Group's prohibited substances. Changing investigation substances according to the 6 th announcement on SVHC substances of REACH regulation.	2012/01/19	Akai	Suzuki
12	Adding investigation substances according to the 7 th announcement on SVHC substances of REACH regulation.	2012/06/22	Akai	Suzuki
13	Adding item 4 - Analysis method of RoHS Directive substance, delated banned period of delivery and main substances to be displayed on item 7- Environmental impact substances of ver. 12 to prohibited substance table-only analysis method. Adding investigation substances according to the 8 th announcement on SVHC substances of REACH regulation	2012/12/21	Akai	Suzuki
14	Adding phthalate ester, yellow phosphorous, red phosphorous of allowed target substances REACH into use-prohibited substances, sorting and revising investigation target substances Adding 144 SVHC substances of REACH regulation into investigation object	2013/08/05	Akai	Suzuki
15	Moving red phosphorus from use-prohibited substances to investigation target substances Adding 3 substances of Tris phosphate to use-prohibited substances Adding up to 151 substances to SVHC of REACH regulation in investigation target substances	2013/12/18	Akai	Suzuki
16	To review threshold of 6 substances of RoHS	2014/09/04	Akai	Suzuki
17	To added prohibited substances and surveyed substances To added up to 161 substances SVHC of REACH regulation in Surveyed substances	2014/12/25	Akai	Suzuki

18	Table 2.2 To added scope applicable to materials/parts/products. Added content to item 4. Environmental management substances, reviewed threshold of prohibited substances, added laws and regulations, to reviewed controlled substances.	2015/09/29	Akai	Suzuki
19	Added limited use of prohibited substances and controlled substances Added controlled substances because of changes of laws and regulations	2016/02/20	Otani	Suzuki
20	Review threshold of prohibited substances and add GADSL to the controlled substances of the exemptions added Regarding RoHS analysis, added CMS request to change applicable standard notation in the 6. Term	2017/03/07	Otani	Narihara
21	Review the allowable content of Cadmium (Cd) in the solders. Others.	2018/02/28	Otani	Narihara
22	Add restricted object scopes D4, D5. Add application scope ▪ destinations of prohibited substances of substances of classification "P" and classification "D / P" in GADSL. Change the standard form of chemical substance survey from our form to chemSHERPA. Add contents of Relating to automobile and Non-use warranty in the Survey form.	2019/03/08	Nakajima	Narihara
23	<ul style="list-style-type: none"> ▪ Tributyltin compounds, Triphenyl tin compounds, were change to Tri-substituted organotin compounds. ▪ About Bis(tributyl tin)=oxide(TBTO), change from threshold 1000ppm to prohibition of intentional use . ▪ About PFOA and its compounds, change the scope from ether to related substances . ▪ Add PFHxS and its salts and related substances as prohibited substances. ▪ Eliminate perchlorate from the list. ▪ About DBP,DEHP,BBP, DIBP, the four substances threshold was changed to total less than 1000ppm. Add 300ppm as our management value. <ul style="list-style-type: none"> ▪ About DBP,DEHP,BBP, DIBP, its threshold was changed from each value to four substances total value less than 1000ppm. 	2020/1/17	Nakajima	Watanabe

24	<ul style="list-style-type: none"> ▪ “Environmental management substances-list of prohibited substances” changed to “Prohibited materials”, revised the term. ▪ “ Environmental management substances-List of controlled substances” changed to “Controlled materials”, the term and section 4-1-2 revised. ▪Section 4-1-3 Packaging materials revised. ▪About PBDEs threshold were changed from 1000ppm to total value less than 500ppm. Controlled values were changed from 800ppm to total value less than 400ppm. ▪Added “Dechlorane Plus” TM as Prohibited substances. ▪ Red phosphorus was changed to Prohibited substances from Controlled Substances ▪ Added PIP(3:1) and PCTP among the 5 PBT substances promulgated with 2021/1/21 based on TSCA Article 6(h). ▪Added UV-328 as Prohibited substances. 	2021/3/17	Nakajima	Watanabe
25	<ul style="list-style-type: none"> •3 Definition ②Contain Added regarding how to report substances in case of multiple purchases. •Changed from “Halogenated Organic Compounds” to “Chlorine · Bromine Organic Compounds” at ” major classification” column. •20 Regarding target laws and regulation in the column of Tris Phosphates column, changed from “US Vermont State Law” to “US domestic law”. •23 Regarding target laws and regulation in the column of PFOA and its compounds column, changed from “REACH Restricted substances” to “POPs Regulation”. •25 Added PFHxA, its salts and PFHxA related substances •26 Added PFCA (C9-C14) •27Added PFCA (C9-C20) •46 Added Pigment Violet-29 •Added Red Phosphorus as voluntary report at 4-1-2 Controlled substances. 	2022/3/18	Nakajima	Watanabe
26	<ul style="list-style-type: none"> •Added NISSEI ELECTRIC (SINGAPORE) PTE. LTD. at 2-1. Applied sites. •Added about packaging materials discarded at NISSEI group in 2.2.⑦. •Limited to applying usage for Cobalt dichloride as desiccant indicator, and changed regulatory background to ‘REACH restricted substances’ from ‘customer demand’. •Changed ‘ Bis(tributyltin) oxide (TBTO)’ to ‘Prohibited contain’ from ‘Prohibited from intentional use’ •Changed ‘Polychlorinated biphenyls’ to ‘Prohibited contain’ from ‘Prohibited from intentional use’ •Changed ‘Polychlorinated naphthalene’ to ‘Prohibited contain’ from ‘Prohibited from intentional use’ •Added Medium chain chlorinated paraffins (MCCP). •Changed ‘Dechlorane Plus ’ to ‘Prohibited content’ from ‘Prohibited from intentional use’, and changed regulatory background to POPs convention from ‘customer demand’. •Regarding PFHxS, added POPs convention as regulatory background. 	2023/3/30	Nakajima	Watanabe

	<ul style="list-style-type: none"> • Changed PFHxA to ‘threshold 25ppb, 1000ppb’ from ‘Prohibited from intentional use’, and changed regulatory background to REACH Regulation from ‘customer demand’. • Regarding PFCAs(C9-C21), added its salt and related substances, changed regulatory background to POPs convention from ‘customer demand’. • Added Long-Chain Perfluoroalkyl carboxylate (LCPFAC). • Changed ‘2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) (UV-320)’ to ‘Prohibited contain’ from ‘Prohibited from intentional use’ • Regarding UV-328, changed to ‘Prohibited content’ from threshold 1000ppm, and change regulatory background to ‘POPs convention’ from ‘REACH restricted substances’. • Added MOAH and MOSH. • Regarding scope of 4-1-3.Packaging material, limited to ②⑥ packaging material in ‘2-2.Scope applicable to materials / parts / products’ • Added NISSEI ELECTRIC (SINGAPORE) PTE. LTD. at 7 Contact information. 			
27	<ul style="list-style-type: none"> • Changed the description of "RoHS 10 substances" to " RoHS Directive 2011/65/EU Annex II amended by Directive (EU)2015/863" • Regarding Short chain chlorinated paraffins (SCCP) , changed to POPs regulation from POPs convention, change to “Class 1 Chemical substances control law” from IEC62474. • Deleted RoHS directive from “Laws and regulations” of Medium chain chlorinated paraffins (MCCP). • Changed “Laws and regulations” of Hexabromocyclododecane to EU POPs regulation from POPs convention. • Changed “Laws and regulations” of PFOS to POPs regulation from POPs convention. • Deleted packing material from the issues requiring consideration about Phthalates contamination risk. • Added threshold 100ppm of USA Model Toxics in Packaging Legislation to four Phthalate esters (DBP, DEHP, BBP, DIBP). • Added “Intentional use prohibited” to threshold of PFHxS and its salts, and changed “Laws and regulations” to “Class 1 Chemical substances control law” from “POPs convention”. • Changed “Laws and regulations” of Formaldehyde to REACH Restricted Substances from Germany Chemical Prohibition Rule • Due to the change of department name, change to Procurement from Purchasing. Changed the phone numbers of related companies at 7 Contact information. 	2024/3/29	Nakajima	Watanabe
28	<ul style="list-style-type: none"> • Added the controlled substances for which management is to be strengthened due to customer and regulatory trends in addition to chemSHERPA managed substances to 3. Definition of terms. • Changed PBDE allowable concentration 350ppm from 500ppm, and controlled value 280ppm from 400ppm. • Regarding Polychloronaphthalenes (PCN), added “Class 1 Chemical substances control law”, and changed to POPs regulation from POPs convention. • Added Pentachlorophenol(PCP) and its salts and esters. 	2025/2/28	Nakajima	Watanabe

	<ul style="list-style-type: none"> ▪ Added Pentachlorobenzene ▪ Regarding Dechlorane Plus, added “Class 1 Chemical substances control law”, and changed to POPs regulation from POPs convention. ▪ Added Perfluoro-1- octanesulfonyl fluoride ▪ Added intentional use prohibition to thresholds for PFOA and its salts and PFOA-related substances, and added “Class 1 Chemical substances control law”. ▪ Regarding PFHxA, changed to REACH Restricted substances from REACH regulation. ▪ Added alternative fluorocarbons (HFCs) to ozone-depleting substances ▪ Regarding UV-328, added “Class 1 Chemical substances control law” , and changed to POPs regulations from POPs convention ▪ Added D6 ▪ Added Bisphenol A(BPA) ▪ Added 40ppm as a threshold of battery in Table4-1-1② Allowable concentration and judgment standard ▪ Added exemption 6(b)-I and 6(b)-II in Table4-1-1③ ▪ Specified Decabromodiphenyl Ethane (DBDPE) as a specially controlled substances requiring reporting ▪ Added NEI telephone number 			
29	<ul style="list-style-type: none"> ▪ Added protective cap in table 2.2. Application scope of materials/parts/products. ▪ A ”uses” field was added to in table 4-1-1①, and the footnotes previously in the margins were transferred into the appropriate fields. ▪ Regarding Polybrominated diphenyl ethers (PBDEs), added thresholds for each use. (RoHS applied equipment has a permissible concentration of 1000 ppm and a control concentration of 800 ppm; all other applications have a limit of 10 ppm.) ▪ Listed Perfluorooctane sulfonate (PFOS) and its salts and Perfluoro-1-octanesulfonyl fluoride (PFOSF) in the same field, and revised the thresholds to intentional use prohibited, with PFOS and its salt limited to a total of 25ppb and PFOS-related substances to a total of 1000ppb. ▪ Regarding formaldehyde, added additional uses beyond wood and textile products. Also revised the threshold for wood and textile products from 0.1ppm to 0.05ppm, and set the threshold for other uses at 0.06 ppm. ▪ Added EU F-Gas regulations to the to the field of greenhouse gas regulation. ▪ Added Bisphenol S. ▪ Added exemptions 6(a)-I, 6(c), 7(a), 7(c)-I, 13(a) in table 4-1-1③ ▪ Revised exemption date at table 4-1-1③ ▪ Added PFAS, limited to packaging material applications into section 4.1.2. Controlled substances ▪ At section5 and 6, revised the organization’s name from JAMP to CMP Consortium. ▪ At section 6-3, added a request to suppliers to obtain evidence 	2026/3/31	Nakajima	Watanabe